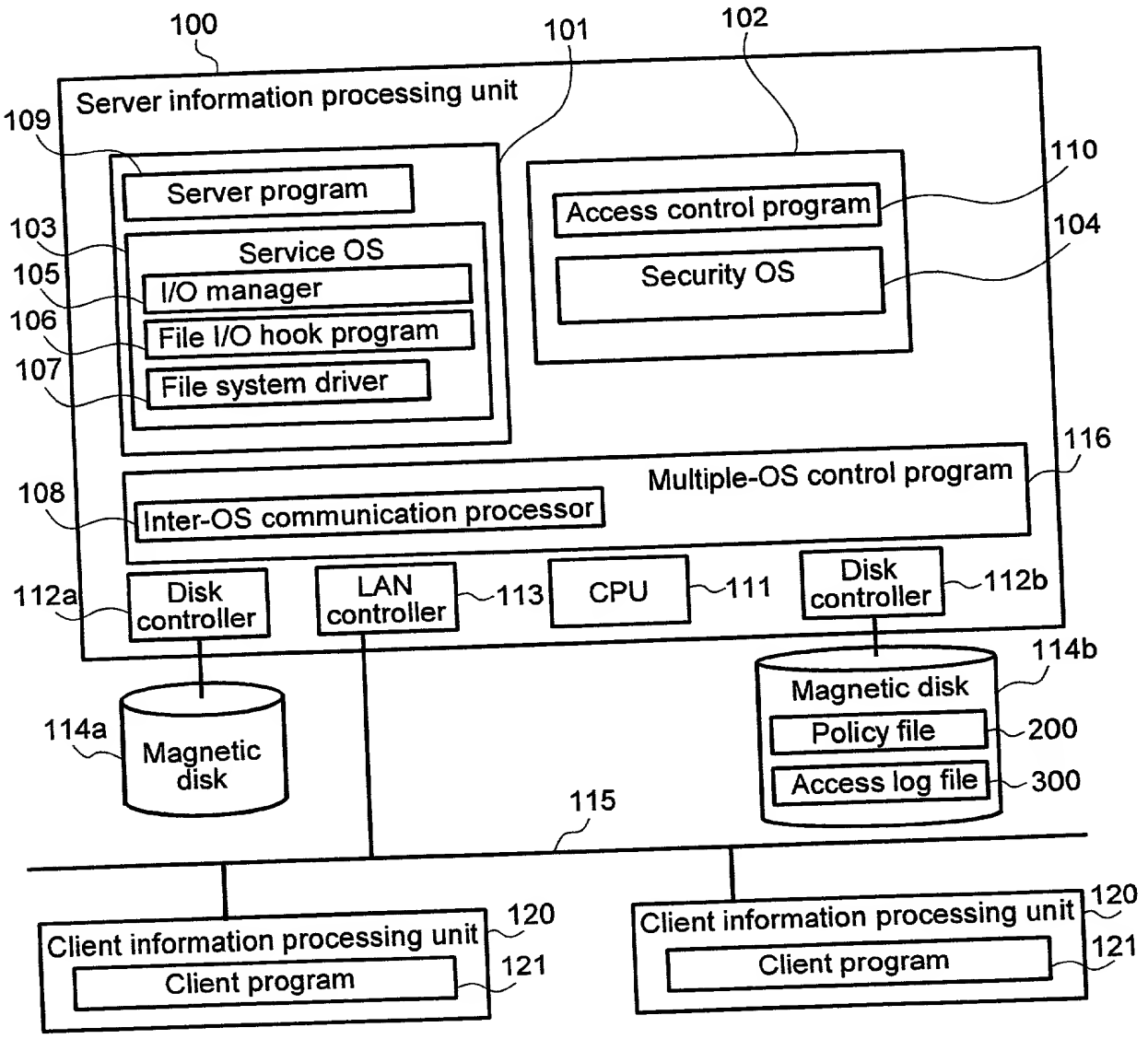
FIG.1



100: Server information processing unit

101: Memory under the control of service OS

102: Memory nuder the control of security OS

120: Client information processing unit

FIG.2

200 / 201 Object name	202 Prohibited access type	203 Error code	204 Exception subject	205 Program hash value	206 User name
210 D:¥DOC¥SECRET.TXT	Open	0016	C:¥prog¥wordedit.exe	Ox22FOA412B73209CC	sys_admin
	Delete	0021	C:¥prog¥fileman.exe	Ox73209C2FOA212B4C	sys_admin
211 D:¥SYS¥CONFIG¥*	Write	0018	C:¥prog¥mantool.exe	OxB74122209FDE236C	sys_admin
	Delete	0021	C:¥prog¥mantool.exe	OxB74122209FDE236C	sys_admin
212 D:¥LOG¥LOG.TXT	Read	0015	C:¥prog¥audit.exe C:¥prog¥vek.exe	Ox2F21204B73C09A2C OxFOA271243B9C202C	root, system
	Rename	0024	C:¥prog¥audit.exe	Ox2F21204B73C09A2C	root

200: Policy file

FIG.3

300	301	302	303	304	305
Date/time	Object name	Access type	Subject name	User name
1999.07.28 15:32:46	D:¥DOC¥SECRET.TXT	Write	C:¥prog¥wwwsrv.exe	u_0023
1999.07.27 09:15:10	D:¥DOC¥SECRET.TXT	Delete	C:¥prog¥wwwsrv.exe	u_0023
1999.07.25 16:02:55	D:¥SYS¥CONFIG¥	Write	C:¥prog¥txtedit.exe	intruder
1999.07.25 14:44:28	D:¥SYS¥CONFIG¥	Delete	C:¥prog¥fileman.exe	intruder
1999.07.25 14:42:59	D:¥LOG¥LOG.TXT	Read	C:¥prog¥txtedit.exe	user007
1999.07.16 10:29:31	D:¥LOG¥LOG.TXT	Delete	C:¥prog¥fileman.exe	user007

300: Access log file

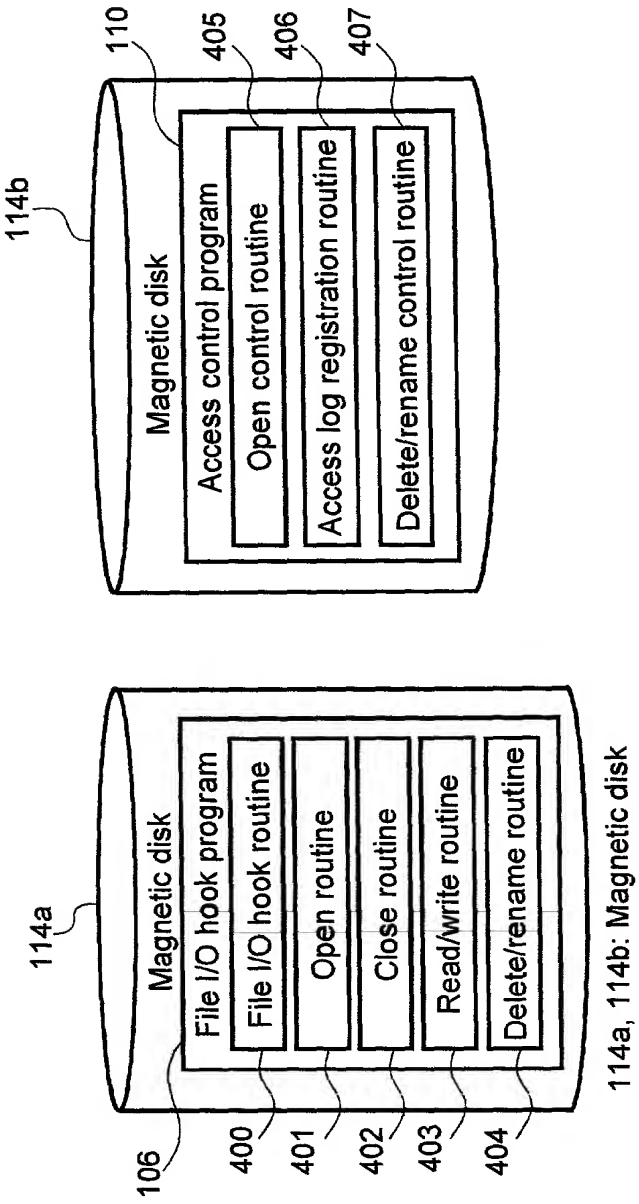
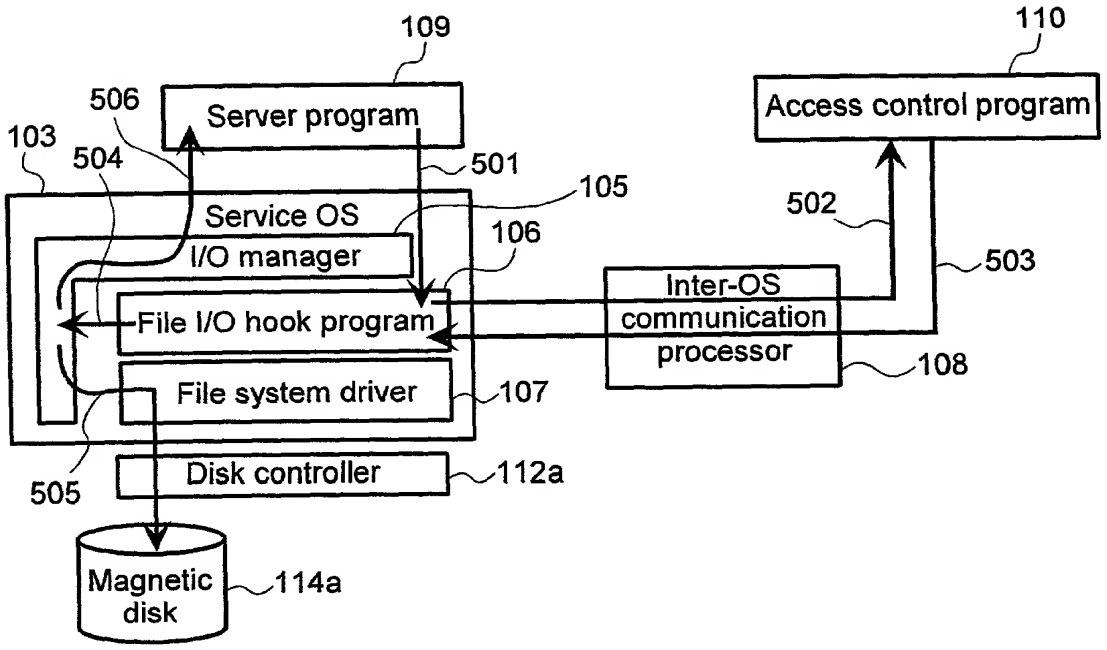

110
405
406
407
114b
Magnetic disk
Access control program
Open control routine
Access log registration routine
Delete/rename control routine
114a
Magnetic disk
File I/O hook program
File I/O hook routine
Open routine
Close routine
Read/write routine
Delete/rename routine
106
400
401
402
403
404
114a, 114b: Magnetic disk

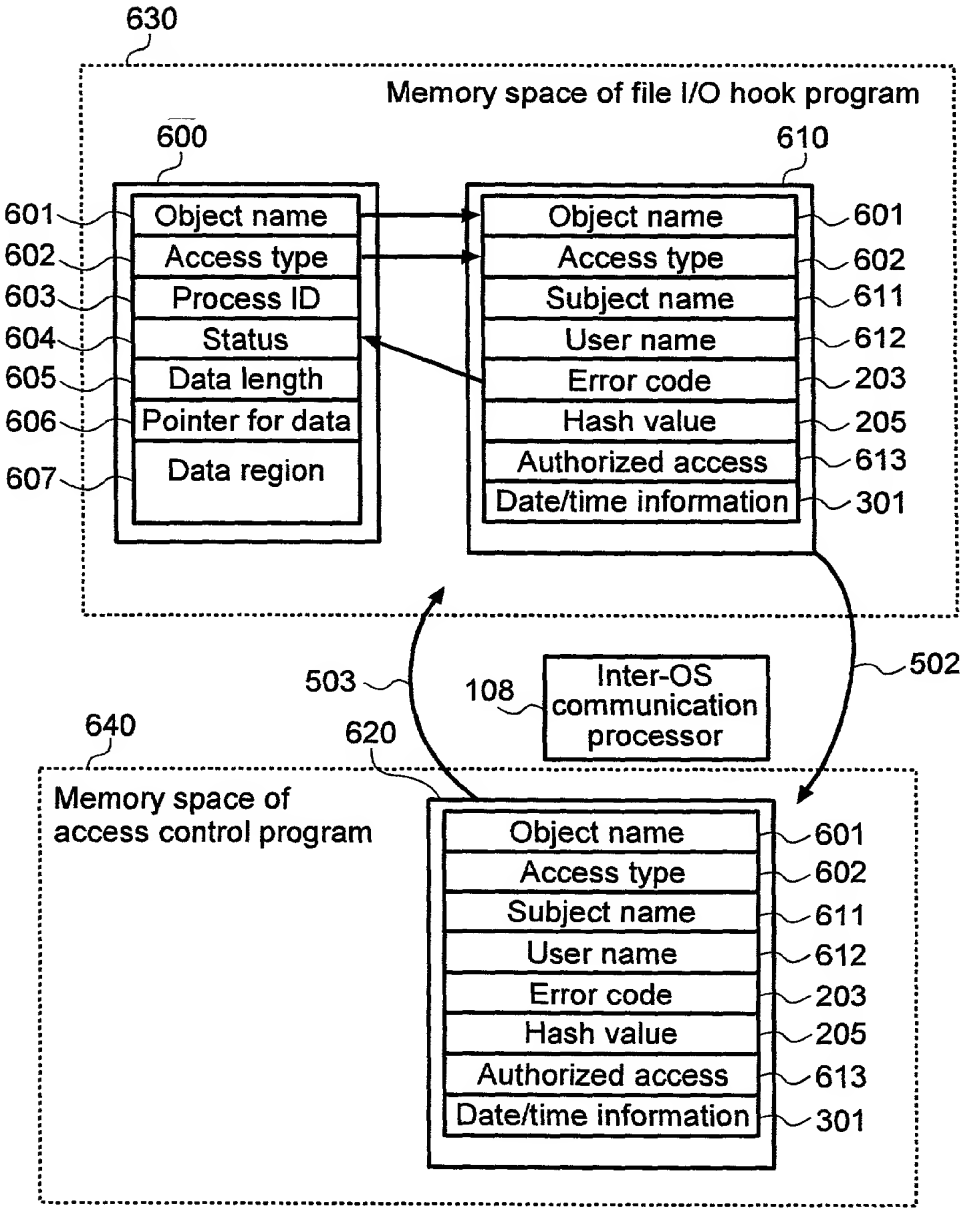
FIG.4

FIG.5



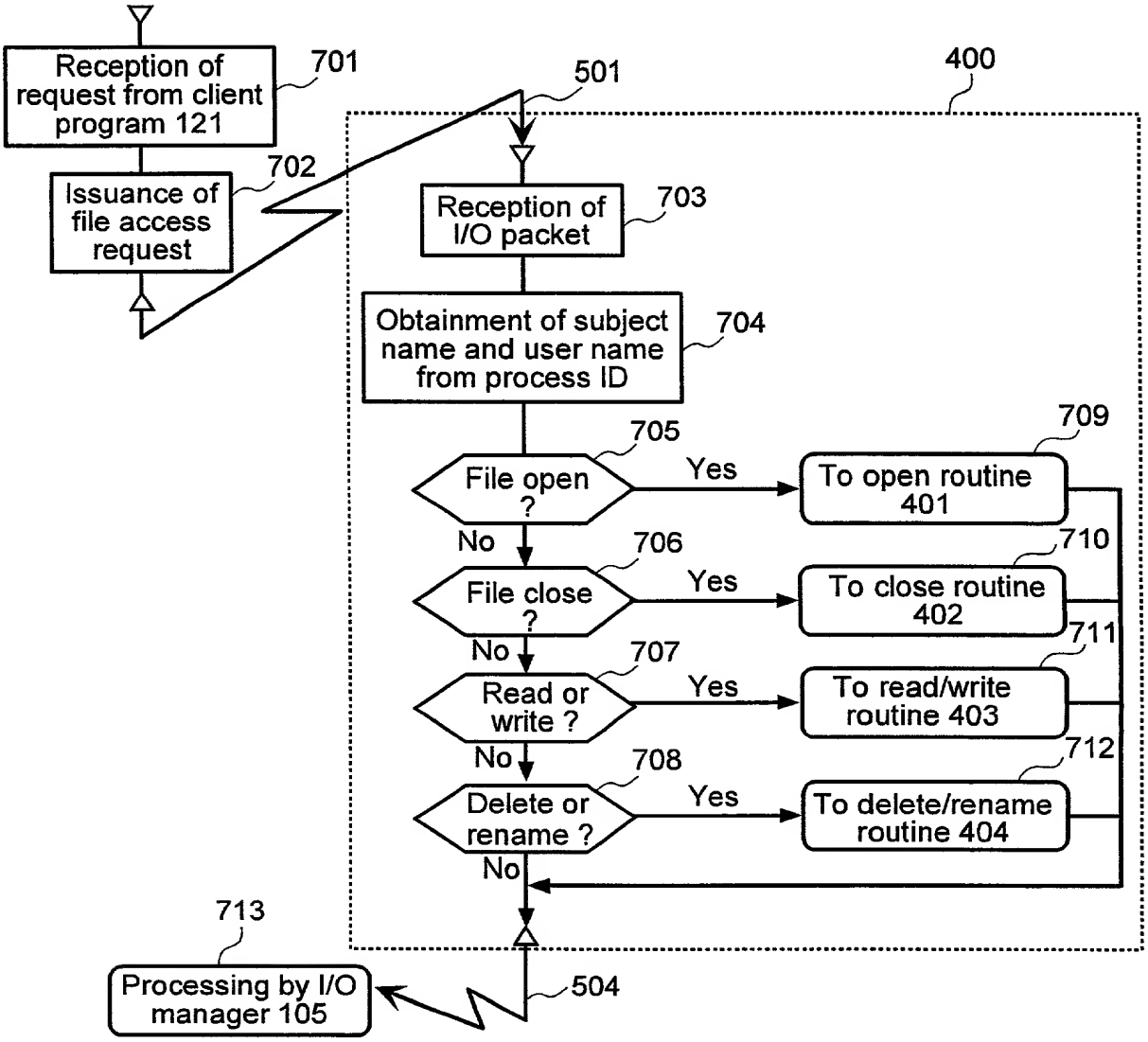
501~506: Communication routes

FIG.6



600: I/O packet
610: Request packet
620: Response packet
630: Memory space of file I/O hook program
640: Memory space of access control program

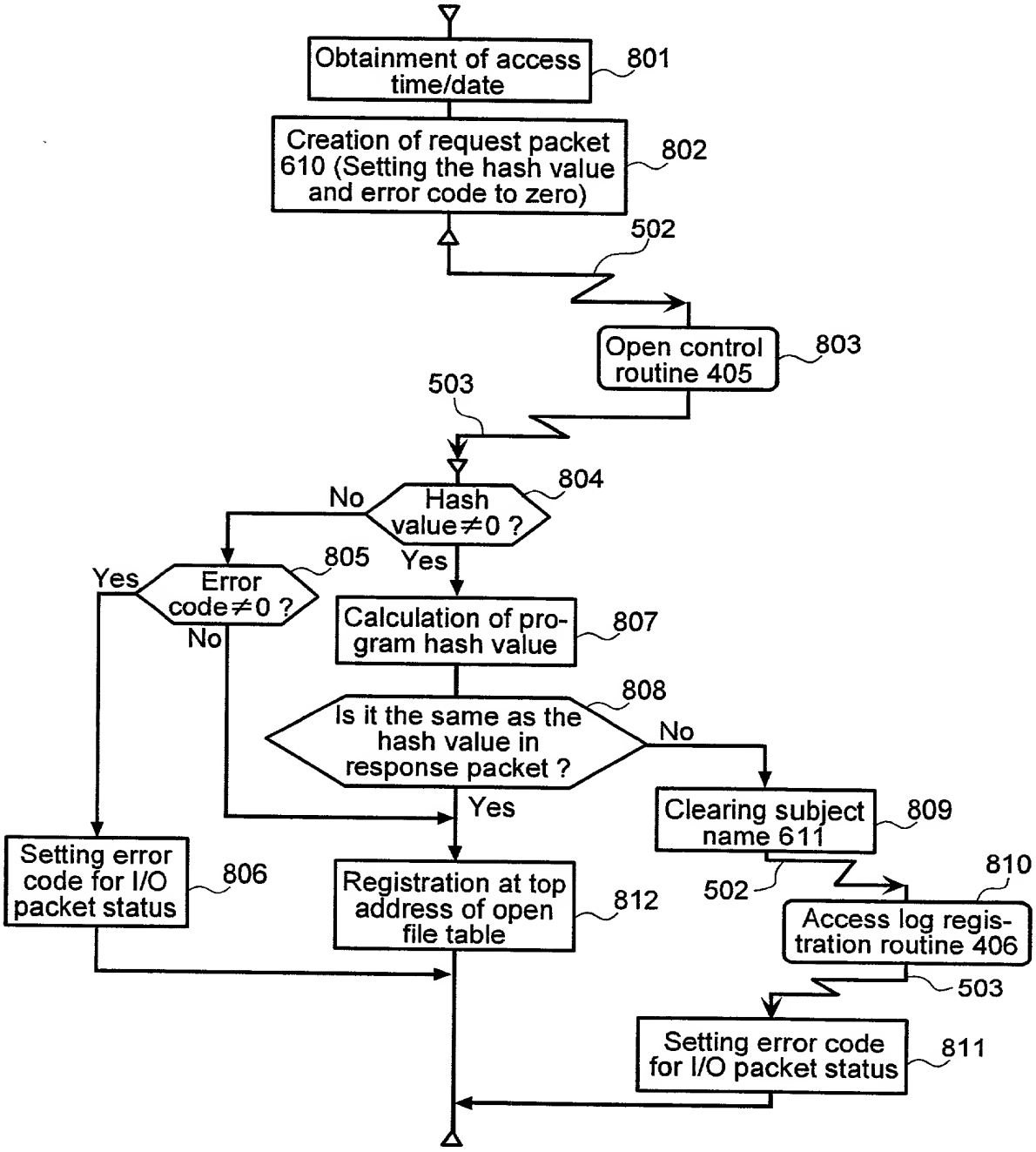
FIG.7



701~702: An outline of the processing sequence for the server program 109

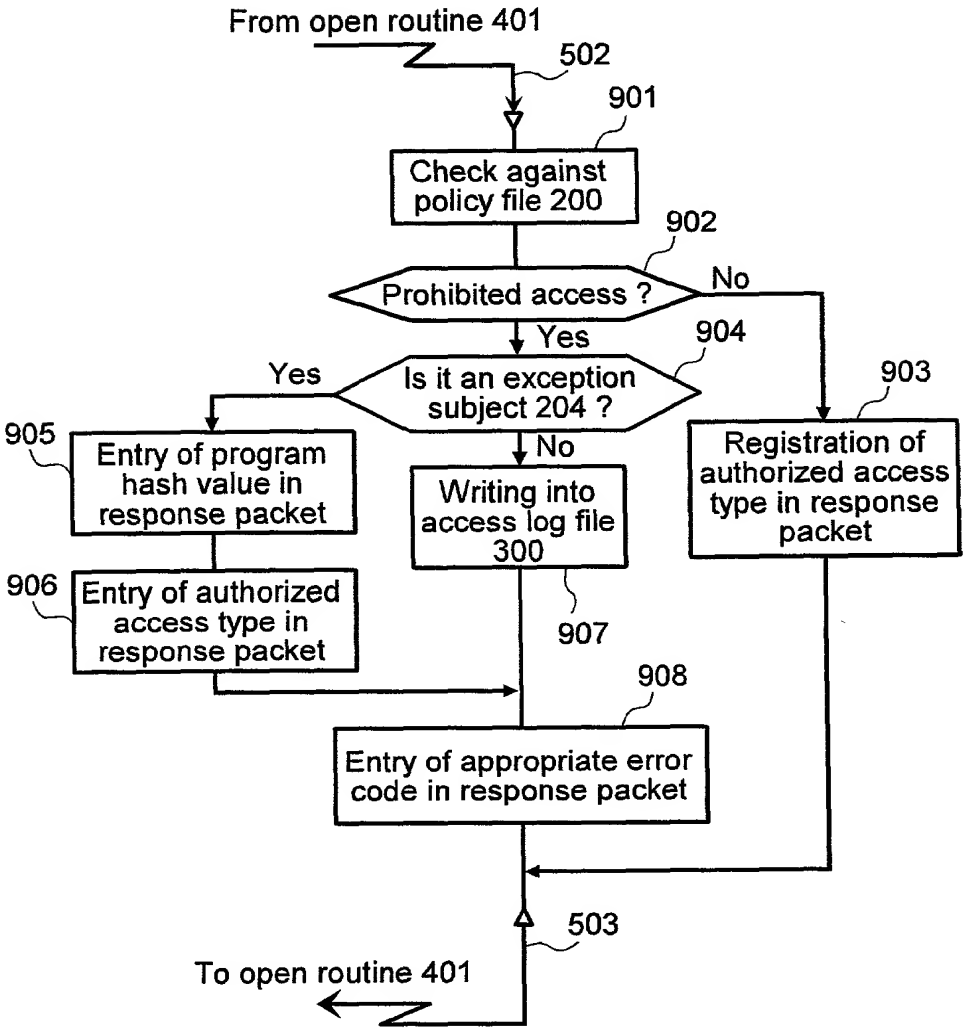
703~712: Processing sequence for the file I/O hook routine 400

FIG.8



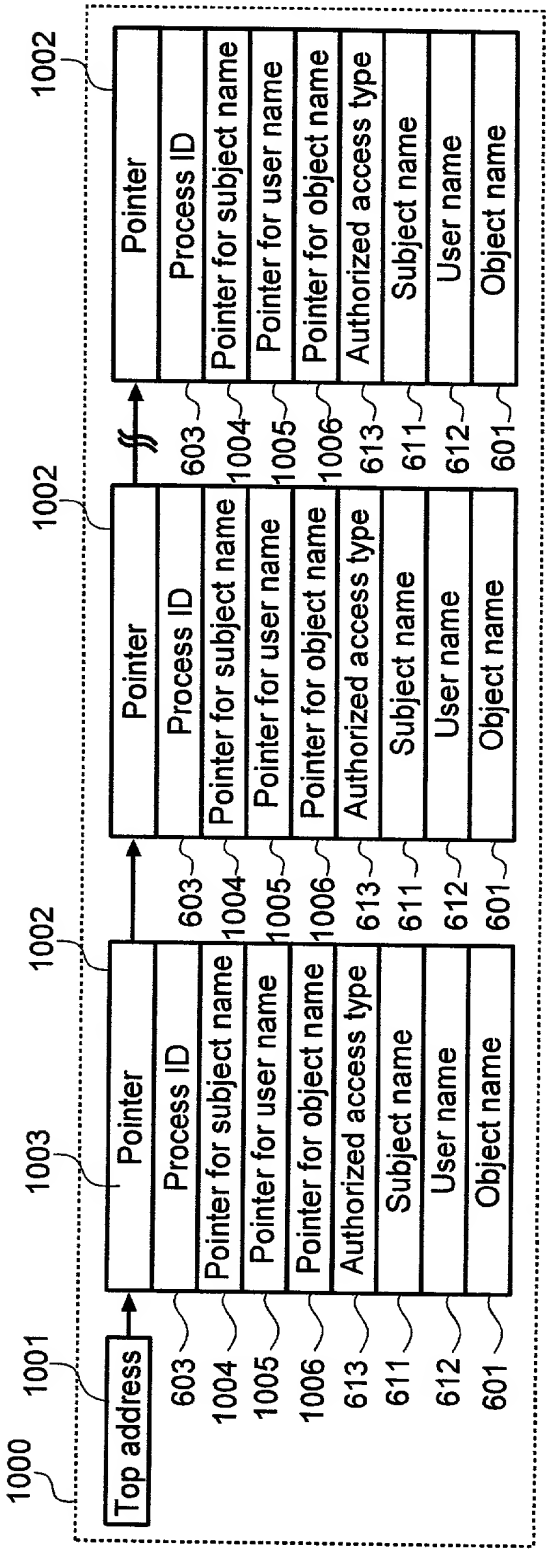
801~812: Processing sequence for the open routine

FIG.9



901~908: Processing sequence for the open control routine 405

FIG.10



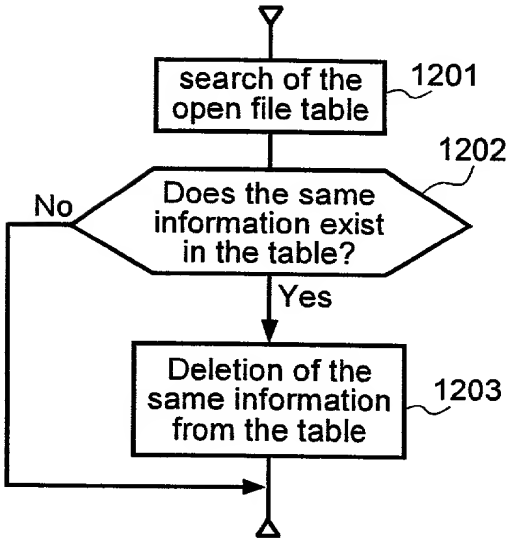
1000: Open file table
1002: Open file structured data

FIG.11

1000

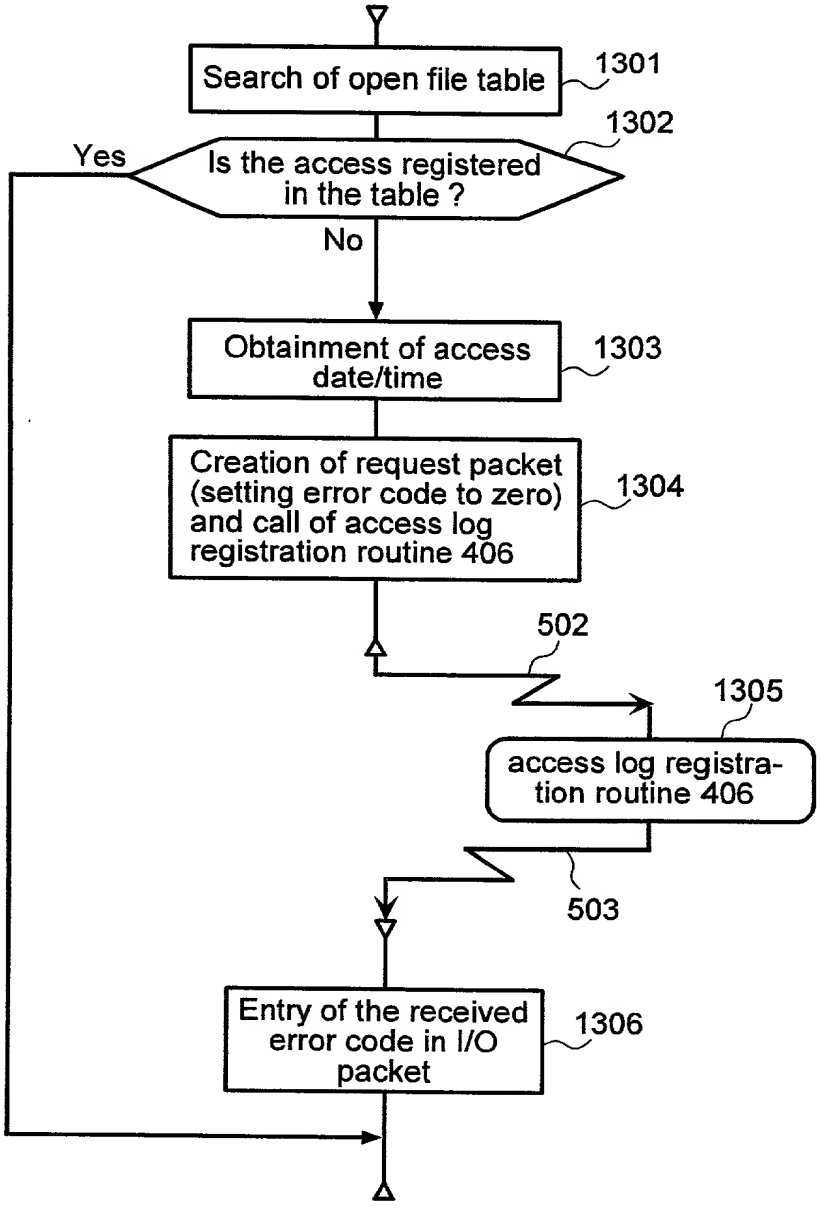
603 Process ID	611 Subject name	612 User name	601 Object name	613 Authorized access type
0022	c:¥prog¥wwwserv.exe	inet	D:¥HOME¥SALES.HTML	Read
0043	c:¥prog¥wordedit.exe	sec_admin	D:¥DOC¥SECRET.TXT	Read/Write
0067	c:¥prog¥viewer.exe	tarou	D:¥DOC¥IDEA.TXT	Read
0092	c:¥prog¥mantool.exe	sys_admin	D:¥SYS¥CONFIG¥PORT	Read/Write
0113	c:¥prog¥vck.exe	system	D:¥DOC¥SHEET.DOC	Read
0218	c:¥prog¥audit.exe	root	D:¥LOG¥LOG.TXT	Read/Write

FIG.12



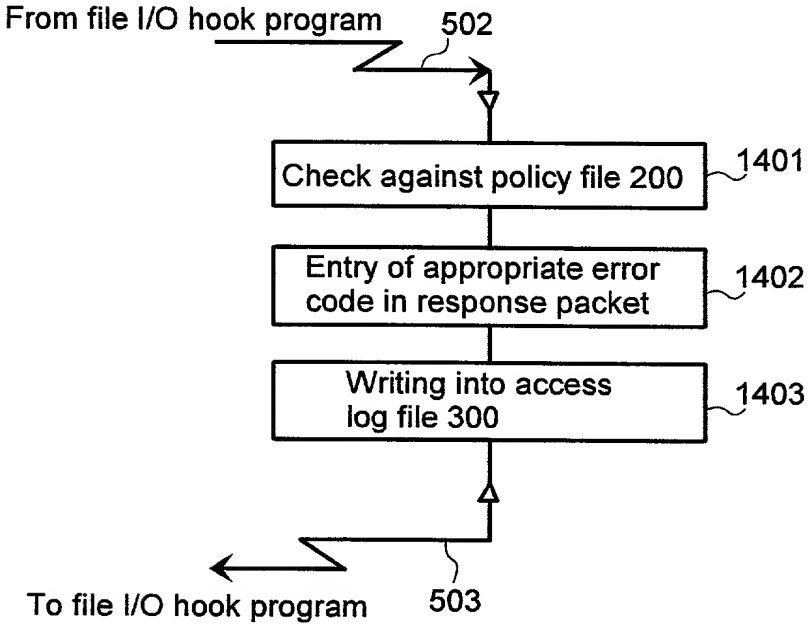
1201~1203: Processing sequence for the close routine 402

FIG.13



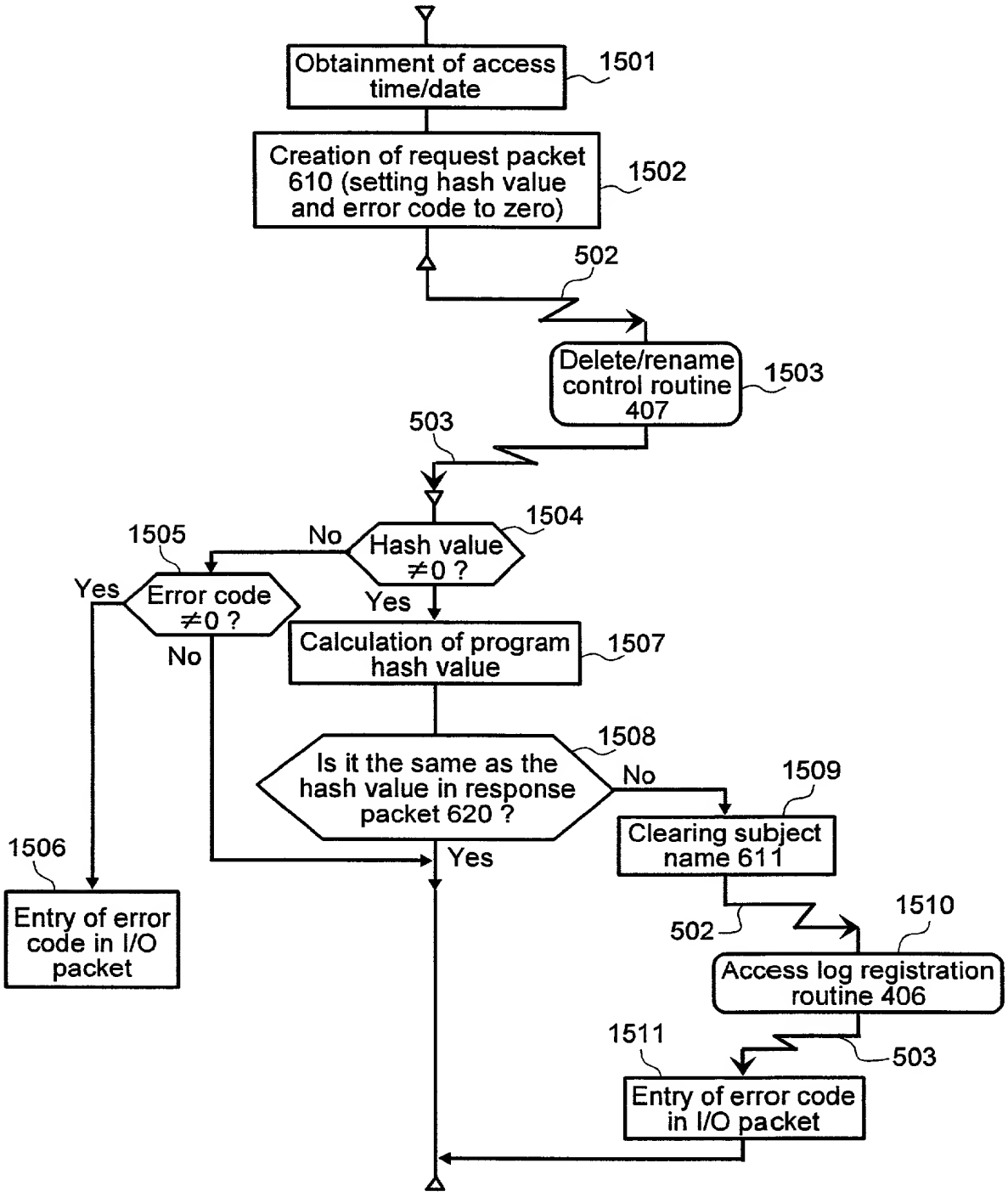
1301~1306: Processing sequence for the read/write routine 403

FIG.14



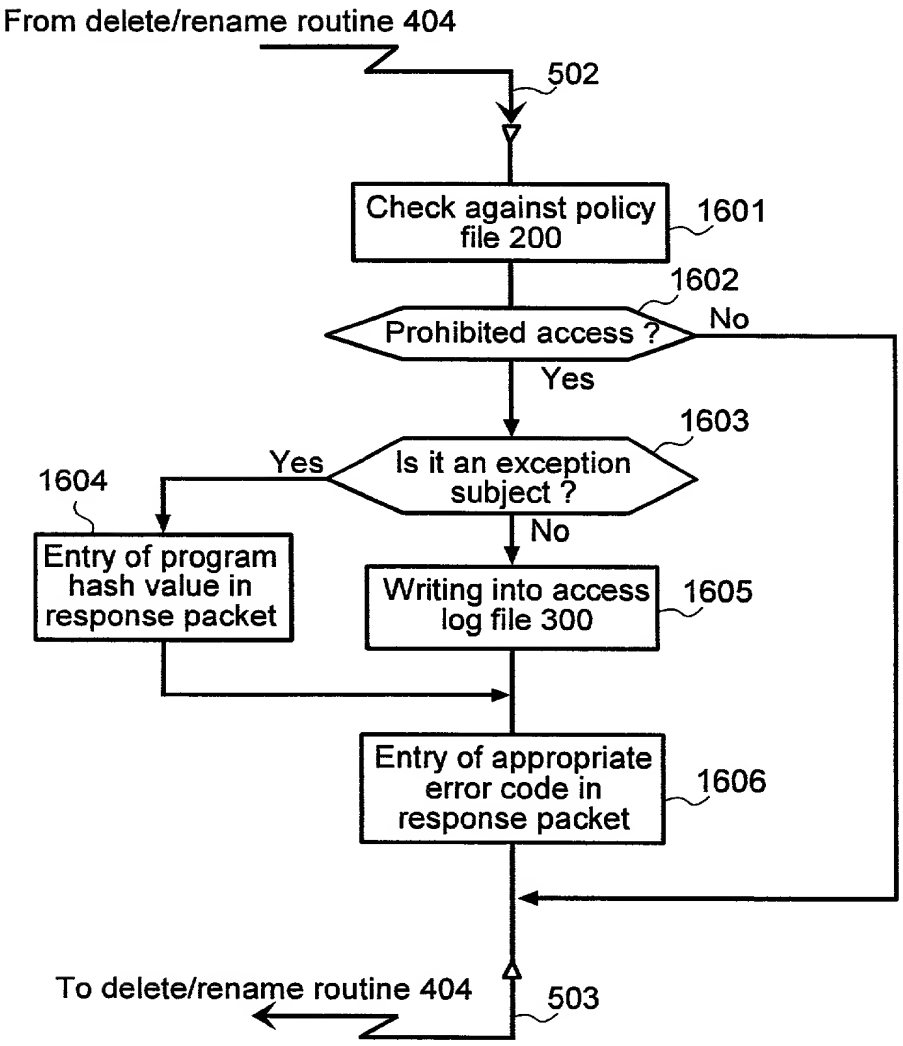
1401~1403: Processing sequence for the access log registration routine 406

FIG.15



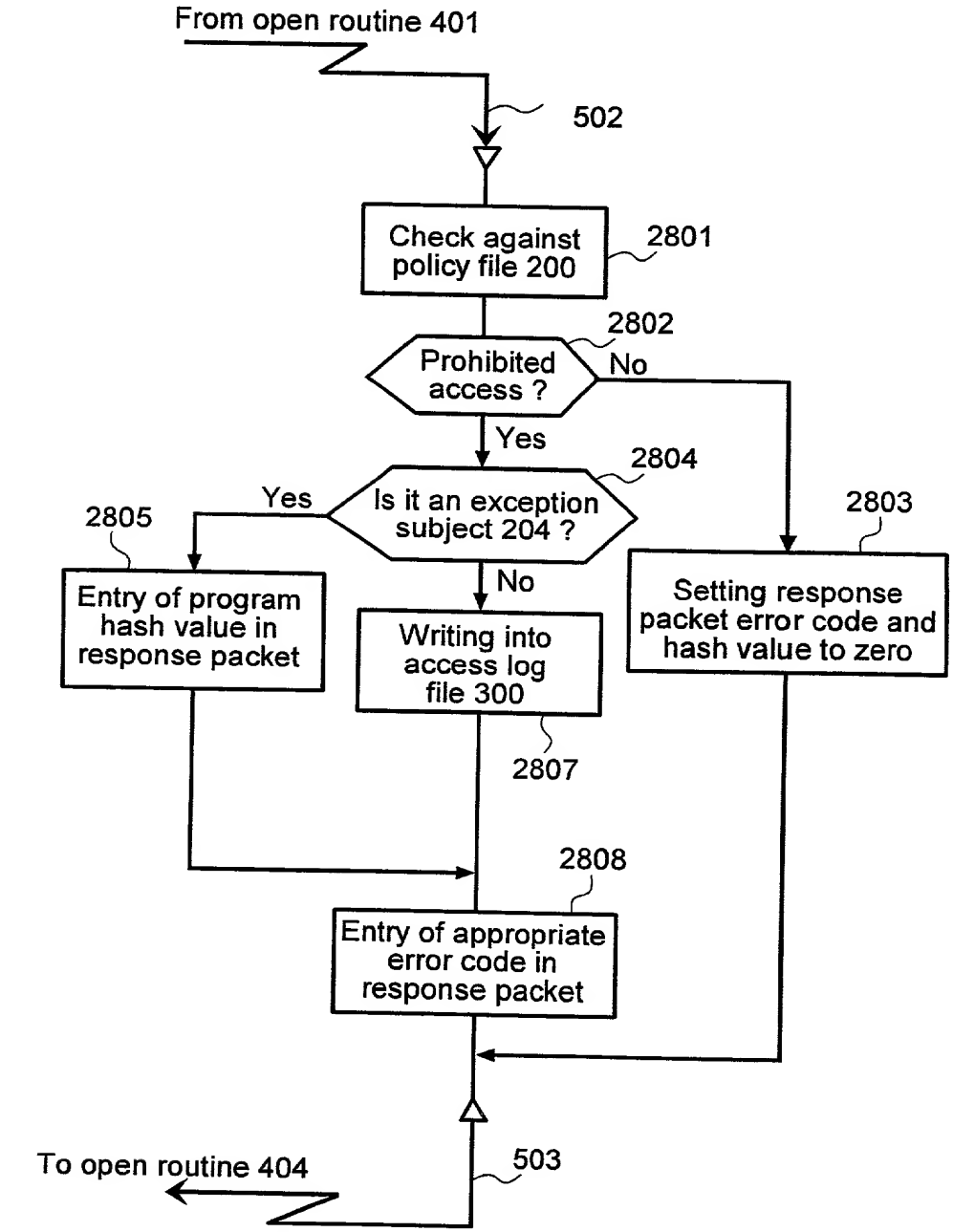
1501~1511: Processing sequence for the delete/rename routine 404

FIG.16



1601~1605: Processing sequence for the delete/rename control routine 407

FIG.17



2801~2808: Processing sequence for the open control routine 405